CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Lab No: CTCE/BBMP/W.No.04/PC/CSR-5/837d/CEMENT/2015-16

Date: 13.05.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. P. Channakrishna,** #152, 2nd Block, 3rd Stage, Saneguruvanahalli, Rajajinagara, Bangalore.
*NAME OF THE WORK	:	Providing signage board and name boards in Ward No.04, BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/YNSD/45/2015-16 Dated: 11.05.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	11.05.2015
PERIOD OF TESTING	:	11.05.2015 to 13.05.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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C.C.No: CTCE/BBMP/WCNo.04/PC/CSR-5/837d/SAND-Gradation/2015-16 : 13.05.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. P. Channakrishna,** #152, 2nd Block, 3rd Stage, Saneguruvanahalli, Rajajinagara, Bangalore.
* Name of Work	: Providing signage board and name boards in Ward No.04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/45/2015-16 Dated: 11.05.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA 2007
Sample ID	: Fine Aggregates
Sample Received on	: 11.05.2015
Date of Testing	: 13.05.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.00	90-100	90-100	90-100	95-100
2.36	72.40	60-95	75-100	85-100	95-100
1.18	51.90	30-70	55-90	75-100	90-100
600 Micron	29.40	15-34	35-59	60-79	80-100
300 Micron	13.40	5-20	8-30	12-40	15-50
150 Micron	4.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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VISHWANATH. I.A.
Chief Executive Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Lab No: CTCE/BBMP/W.No.04/PC/CSR-5/837d/AGG/GR/2015-16 : 13.05.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. P. Channakrishna,** #152, 2nd Block, 3rd Stage, Saneguruvanahalli, Rajajinagara, Bangalore.
* Name of Work	: Providing signage board and name boards in Ward No.04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/45/2015-16 Dated: 11.05.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 11.05.2015
Date of Testing	: 13.05.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.00	95-100	85-100
20	45.00	30-70	0-20
10	19.00	10-35	0-5
4.75	4.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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AE-04

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377

Job No.: CTCE/BBMP/W.No.04/PC/CSR-5/837d/CUBE/2015-16 22.06.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. P. Channakrishna,** #152, 2nd Block, 3rd Stage, Saneguruvanahalli, Rajajinagara, Bangalore.
* Name of the work	: Providing signage board and name boards in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/45/2015-16 Dated: 11.05.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 25.05.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2015	22.06.2015	8.123	352.3	15.66
2	25.05.2015	22.06.2015	8.258	365.5	16.24
3	25.05.2015	22.06.2015	8.306	378.3	16.81

* Information is furnished by the Customer/Representative

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T-2377

Job No: CTCE/BBMP/W.No.04/PC/CSR-5/837d/CUBE/2015-16 25.06.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : **Mr. P. Channakrishna,**
#152, 2nd Block, 3rd Stage, Saneguruvanahalli, Rajajinagara, Bangalore.

* Name of the work : Providing signage board and name boards in Ward No.04, BBMP, Bangalore.

* Reference : BBMP/AEE/YNSD/45/2015-16 Dated: 11.05.2015

* Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{35}

Compressive Strength as on : 28th day

Sample Received on : 28.05.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.05.2015	25.06.2015	8.458	385.6	17.14
2	28.05.2015	25.06.2015	8.328	370.5	16.47
3	28.05.2015	25.06.2015	8.223	360.5	16.02

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Job No: CTCE/BBMP/W.No.04/PC/CSR-5/837d/CUBE/2015-16 30.06.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : **Mr. P. Channakrishna,**
#152, 2nd Block, 3rd Stage, Saneguruvanahalli, Rajajinagara, Bangalore.

* Name of the work : Providing signage board and name boards in Ward No.04, BBMP, Bangalore.

* Reference : BBMP/AEE/YNSD/45/2015-16 Dated: 11.05.2015

* Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 02.06.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2015	30.06.2015	8.099	348.6	15.49
2	02.06.2015	30.06.2015	8.199	360.8	16.04
3	02.06.2015	30.06.2015	8.296	390.2	17.34

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